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	Application No.	Applicant(s)	
Notice of Allowability	10/718,456	HOPPER ET AL.	
	Examiner	Art Unit	
	Deloris Bryant	2813	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>11/16/2005</u> .			
2. The allowed claim(s) is/are <u>4 and 21-39</u> .			
3.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/02 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	

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DETAILED ACTION

1. Applicant's Amendment After Non-Final Rejection, dated 16 November 2005 is hereby acknowledged.

2. The application has been amended as follows: in the claims: cancel claims 1-3 and 5-20.

Allowable Subject Matter

- 3. Claims 4 and 21-39 are allowed.
- 4. The following is an examiner's statement of reasons for allowance.

Ohuchi et al (US 3,745,424) discloses a photodiode comprising: a first semiconductor region of a first conductivity type (Fig. 1; 1); a second semiconductor region of a second conductivity type (Fig. 1; 2), the second semiconductor region lying over and contacting the first semiconductor region at a first junction; a third semiconductor region of the first conductivity type (Fig. 1; 3), the third semiconductor region lying over and contacting the second semiconductor region.

Ohuchi does not teach or fairly suggest, in combination with the other claimed features that the third semiconductor region has a first, second and third portion, respectively and that the first portion has a dopant concentration substantially greater than the dopant concentration of either the second or third portion.

Prior art of record also does not describe or suggest applicant's invention wherein the first depletion region absorbs electromagnet radiation that represents blue

light, and generates blue electron-hole pairs nor that the second depletion region absorbs substantially no electromagnetic radiation that represents blue light.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deloris Bryant whose telephone number is (571) 272-8670. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dsb

GEORGE ECKERT PRIMARY EXAMINER